

CLAIMS

1. A method for preparing electrodes based on
5 activated carbon and carbon nanotubes on a collector,
comprising the following steps:
 - (a) blending of an initial powdery carbon
material and a solvent;
 - (b) addition of a polymer binder and blending
10 until homogenized;
 - (c) drying of the paste;
 - (d) optionally, mixing of the paste; and
 - (e) covering of the collector.
- 15 2. The method as claimed in claim 1, in which step
a) is carried out by ultrasonication.
3. The method as claimed in either of claims 1 and
2, in which step a) is carried out at a temperature of
20 at least 50°C.
4. The method as claimed in one of claims 1 to 3,
in which the initial powdery carbon material of step a)
is obtained by a method comprising the following steps:
 - 25 (f) dispersion of the carbon nanotubes in a
solvent, preferably water;
 - (g) addition of the activated carbon and
blending; and
 - (h) drying of the initial powdery carbon
30 material.
5. The method as claimed in claim 4, in which the
addition of activated carbon is followed by
ultrasonication.
- 35 6. The method as claimed in one of claims 1 to 5,
in which the initial powdery carbon material is a blend

of activated carbon and carbon nanotubes, in a weight proportion ranging from 95/5 to 50/50.

7. The method as claimed in one of claims 1 to 6,
5 in which the binder is an aqueous suspension of PTFE or styrene/butadiene.

8. The method as claimed in one of claims 1 to 7,
10 in which step d) is carried out to fibrillation of the binder.

9. A method for preparing a paste based on activated carbon and carbon nanotubes, comprising steps a) to d) as claimed in one of claims 1 to 8.

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10. An improved-aging electrode obtained by the method as claimed in one of claims 1 to 8.

11. A supercapacitor comprising at least one
20 electrode as claimed in claim 10.